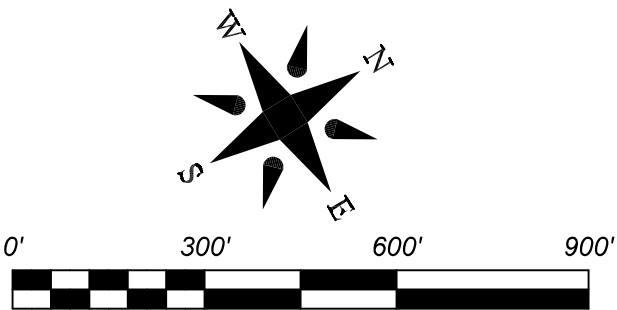


FINAL CONDITIONS

Pre-Post Calculations

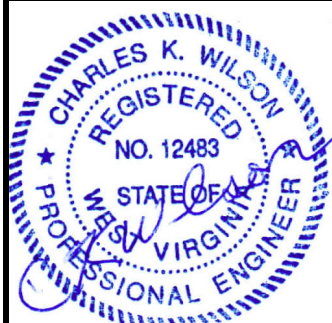
Pre-Construction Peak Flow				Post-Construction Peak Flow			
Runoff Curve Number and Runoff		Fri Feb 07 15:41:49 2020		Runoff Curve Number and Runoff		Fri Feb 07 15:46:59 2020	
Project: WV PP II	By:	Date: 02/07/20		Project: WV PP II	By:	Date: 02/07/20	
Location: Present	Checked:	Date: 02/07/20		Location: Developed	Checked:	Date: 02/07/20	
1. Runoff Curve Number (CN)				1. Runoff Curve Number (CN)			
Cover description	CN	Soil Group	Area(Acre)	Cover description	CN	Soil Group	Area(Acre)
Gravel Streets, Pads and Buildings	74	C	0.000	Gravel Streets, Pads and Buildings	74	C	33.500
Grass (Good)	74	C	64.540	Grass (Good)	74	C	39.880
Woods (Good)	70	C	8.840	Woods (Good)	70	C	0.000
CN (weighted): 73.5				CN (weighted): 80.8			
Total Area: 73.380 Acre				Total Area: 73.380 Acre			
2. Runoff				2. Runoff			
Return Period: 1 YEAR				Return Period: 1 YEAR			
Rainfall, P: 2.48 in				Rainfall, P: 2.48 in			
Runoff, Q: 0.5775 in				Runoff, Q: 0.9200 in			
Runoff Volume: 3.5311 Acre-Ft				Runoff Volume: 5.6255 Acre-Ft			
Time of Concentration (SCS) Fri Feb 07 15:44:03 2020				Time of Concentration (SCS) Fri Feb 07 15:50:37 2020			
Project: WV PP II	By:	Date: 02/07/20		Project: WV PP II	By:	Date: 02/07/20	
Location: Present	Checked:	Date: 02/07/20		Location: Developed	Checked:	Date: 02/07/20	
Curve Number : 74				Curve Number : 81			
Length of Flow : 4350.00 ft				Length of Flow : 5960.00 ft			
Average Land Slope : 2.38 %				Average Land Slope : 1.21 %			
Time of Concentration : 1.330 hrs, 79.8 mins				Time of Concentration : 49.946 hrs, 2996.8 mins			
Graphical Peak Discharge Fri Feb 07 15:44:41 2020				Graphical Peak Discharge Fri Feb 07 15:56:56 2020			
Project: WV PP II	By:	Date: 02/07/20		Project: WV PP II	By:	Date: 02/07/20	
Location: Present	Checked:	Date:		Location: Developed	Checked:	Date:	
1. Data:				1. Data:			
Drainage area:.....A = 73.3800Acres				Drainage area:.....A = 73.3800Acres			
Runoff Curve Number:.....CN = 74				Runoff Curve Number:.....CN = 81			
Time of Concentration:.....Tc = 79.78 min				Time of Concentration:.....Tc = 2996.76 min			
Storm Type:.....= II				Storm Type:.....= II			
Pond and swamp areas spread throughout watershed.....= 0.00 percent of A				Pond and swamp areas spread throughout watershed.....= 3.39 percent of A			
0.0000 Acres				2.4876 Acres			
2. Frequency.....yr = 1				2. Frequency.....yr = 1			
3. Rainfall, P(24-hour).....in = 2.48				3. Rainfall, P(24-hour).....in = 2.48			
4. Initial abstraction, Ia.....= 0.7027				4. Initial abstraction, Ia.....= 0.4691			
5. Compute Ia/P.....= 0.2833				5. Compute Ia/P.....= 0.1892			
6. Unit peak discharge, qu.....csm/in = 253.524				6. Unit peak discharge, qu.....csm/in = 57.325			
7. Runoff, Q.....in = 0.5970				7. Runoff, Q.....in = 0.9282			
8. Pond & swap adjustment factor,...Fp = 1.00				8. Pond & swap adjustment factor,...Fp = 0.76			
9. Peak Discharge, qp.....cfs = 17.355				9. Peak Discharge, qp.....cfs = 4.636			

The increase in Runoff from the new Impervious areas is 20,300 CF.
Total Trap Retention of 48 hours is 299,000 CF.
Therefore, overall Peak Discharge for the 1-yr event is decreased by 12.719 cfs as a result of the Sediment Trap/SWM Controls (total of 54.92 Acres of Retention Area).

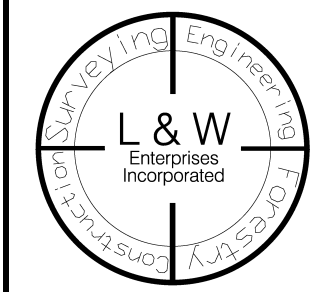


REVISIONS

DATE



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THIS DOCUMENT
PREPARED FOR
WVPP II LLC

FINAL CONDITIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 300'
Designed By: CKW
File No. WVPPII_1-20
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